BRUHAT BANGALORE MAHANAGARA PALIKE
BYTARAYANPURA DIVISION

Name of Work: Package 2 Consists of 3 Works of Rs.1100.00 Lakhs

1.Improvements to roads and drains at Kogilu and surrounding area in Ward No 05 Byatarayanapura sub division

DETAILED-MEASUREMENT

FIRST & PART BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287632
email: tejusconsultants@gmail.com

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Detailed- Measurements

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Sub Division

Bill No : First and Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name of Work : - Improvements to roads and drains at Kogilu and surrounding area in Ward No 05 Byatarayanapura sub division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80												
Measurements recorded on													
	Qty vide Pre measurement sheet page no . 1 to 9												
								Total Quantity		898.60	Cum	234.00	2,10,273.00
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)												
	Prakruthi Nagar												
	9th,10th,10th A link Road												
	LHS												
	15.00	28.00		1	13.00			0.90		11.70	0.9bs		
	35.00	48.70		1	13.70			0.90		12.33	0.9bs		
	9th Cross Road												
	LHS												
	9.30	19.00		1	9.70			1.20		11.64	1.2bs		
	19.00	27.60		1	8.60			1.20		10.32	1.2bs		
	27.60	36.60		1	9.00			1.20		10.80	1.2bs		
	73.00	91.70		1	18.70			1.20		22.44	1.2bs		
	117.50	128.00		1	10.50			0.90		9.45	0.9bs		
	155.50	173.50		1	18.00			1.20		21.60	1.2bs		
	192.00	219.50		1	27.50			0.90		24.75	0.9bs		
	248.00	265.00		1	17.00			1.20		20.40	1.2bs		
	RHS												
	117.50	137.50		1	20.00			0.90		18.00	0.9bs		
	192.00	210.00		1	18.00			0.90		16.20	0.9bs		
	210.00	246.60		1	36.60			0.90		32.94	0.9bs		
	6th E Cross Road												
	LHS												
	28.80	75.50		1	46.70			0.90		42.03	0.9bs		
	RHS												
	0.00	3.50		1	3.50			1.20		4.20	1.2bs		
	11.50	22.00		1	10.50			0.90		9.45	0.9bs		
	57.30	66.40		1	9.10			1.20		10.92	1.2bs		
	Cross Road B/W 6th E and 6th D												
	RHS												
	16.00	28.00		1	12.00			0.90		10.80	0.9bs		
	6th D Cross Road												
	LHS												
	46.50	61.00		1	14.50			0.90		13.05	0.9bs		

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. * BANGALORE *

Assistant Engineer

Assistant Executive Engineer

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Name of Work : - Improvements to roads and drains at Kogilu and surrounding area in Ward No 05 Byatarayanapura sub division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
	RHS												
	19.50	29.00		1	9.50			1.20		11.40	1.2bs		
	6th C Cross Road												
	LHS												
	10.40	14.40		1	4.00			0.90		3.60	0.9bs		
	29.50	37.00		1	7.50			0.90		6.75	0.9bs		
	RHS												
	14.40	37.00		1	22.60			0.90		20.34	0.9bs		
	37.00	46.50		1	9.50			1.20		11.40	1.2bs		
	72.30	99.50		1	27.20			0.90		24.48	0.9bs		
	Cross Road B/W 6th C and 6th B												
	LHS												
	0.00	4.00		1	4.00			1.20		4.80	1.2bs		
	RHS												
	4.00	8.70		1	4.70			0.90		4.23	.9bs		
	6th Cross Prakruthi Nagara												
	LHS												
	85.00	96.00		1	11.00			1.00		11.00	1m BS slab		
	102.40	114.50		1	12.10			1.20		14.52	1.2m BS Slab		
	5th Cross Prakruthi Nagara												
	LHS												
	37.60	50.00		1	12.40			1.20		14.88	1.2m BS Slab		
	RHS												
	60.00	74.40		1	14.40			0.90		12.96	0.9m BS slab		
	98.60	109.30		1	10.70			0.90		9.63	0.9m BS slab		
	4th Cross Prakruthi Nagara												
	LHS												
	74.00	86.20		1	12.20			0.90		10.98	0.9m BS slab		
	98.00	110.30		1	12.30			0.90		11.07	0.9m BS slab		
	3rd Cross Prakruthi Nagara(Sri Bhramhalingeshwara Juice and Condiments)												
	RHS												
	0.00	18.00		1	18.00			0.90		16.20	0.9m BS slab		
	Prakruthi Nagara Main Road												
	LHS												
	15.00	18.80		1	3.80			0.90		3.42	0.9 BS Slab		
	RHS												
	116.40	121.50		1	5.10			1.20		6.12	1.2m BS Slab		
	346.70	354.40		1	7.70			0.90		6.93	0.9 BS Slab		
										204.71			
								Total Quantity		517.73	Sqm	112.00	57,986.00

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Assistant Engineer

Assistant Executive Engineer

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Name of Work : - Improvements to roads and drains at Kogilu and surrounding area in Ward No 05 Byatarayanapura sub division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
3	Removing and resetting of footpath slab (P.No 270, I.No 37.56 of PW, P&IWTD SR 2018-19)												
	Prakruthi Nagar												
	9th,10th,10th A link Road												
	LHS												
	0.00	15.00		1	15.00			0.90		13.50	0.9pcs		
	48.70	61.50		1	12.80			0.90		11.52	0.9pcs		
	RHS												
	0.00	15.00		1	15.00			0.90		13.50	0.9pcs		
	15.00	28.00		1	13.00			0.90		11.70	0.9pcs		
	35.00	48.70		1	13.70			0.90		12.33	0.9pcs		
	48.70	64.20		1	15.50			0.90		13.95	0.9pcs		
	9th Cross Road												
	LHS												
	0.00	9.30		1	9.30			1.20		11.16	1.2pcs		
	36.60	54.70		1	18.10			0.90		16.29	0.9pcs		
	64.00	73.00		1	9.00			0.90		8.10	0.9pcs		
	91.70	110.70		1	19.00			0.90		17.10	0.9pcs		
	128.00	137.50		1	9.50			0.90		8.55	0.9pcs		
	137.50	155.50		1	18.00			0.90		16.20	0.9pcs		
	173.50	192.00		1	18.50			0.90		16.65	0.9pcs		
	219.50	237.00		1	17.50			0.90		15.75	0.9pcs		
	RHS												
	19.00	36.60		1	17.60			0.90		15.84	0.9pcs		
	36.60	54.70		1	18.10			0.90		16.29	0.9pcs		
	54.70	73.00		1	18.30			0.90		16.47	0.9pcs		
	73.00	110.70		1	37.70			0.90		33.93	0.9pcs		
	137.50	192.00		1	54.50			0.90		49.05	0.9pcs		
	6th E Cross Road												
	LHS												
	3.50	22.00		1	18.50			0.90		16.65	0.9pcs		
	RHS												
	3.50	11.50		1	8.00			0.90		7.20	0.9pcs		
	28.80	57.30		1	28.50			0.90		25.65	0.9pcs		
	66.40	89.00		1	22.60			0.90		20.34	0.9pcs		
	Cross Road B/W 6th E and 6th D												
	LHS												
	0.00	16.00		1	16.00			0.90		14.40	0.9pcs		
	16.00	28.00		1	12.00			0.90		10.80	0.9pcs		
	RHS												
	0.00	16.00		1	16.00			0.90		14.40	0.9pcs		
	6th D Cross Road												
	LHS												
	0.00	19.50		1	19.50			0.90		17.55	0.9pcs		
	19.50	29.00		1	9.50			0.90		8.55	0.9pcs		
	29.00	46.50		1	17.50			0.90		15.75	0.9pcs		
										469.17			

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT LTD * BANGALORE *

Assistant Engineer

Assistant Executive Engineer

Detailed- Measurements

Name of Work : - Improvements to roads and drains at Kogilu and surrounding area in Ward No 05 Byatarayanapura sub division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
	RHS												
	0.00	19.50		1	19.50			0.90		17.55	0.9pcs		
	29.00	46.50		1	17.50			0.90		15.75	0.9pcs		
	6th C Cross Road												
	LHS												
	37.00	46.50		1	9.50			0.90		8.55	0.9pcs		
	46.50	65.80		1	19.30			0.90		17.37	0.9pcs		
	72.30	101.50		1	29.20			0.90		26.28	0.9pcs		
	RHS												
	46.50	65.80		1	19.30			0.90		17.37	0.9pcs		
	Cross Road B/W 6th C and 6th B												
	LHS												
	4.00	8.70		1	4.70			0.90		4.23	0.9pcs		
	8.70	27.50		1	18.80			0.90		16.92	0.9pcs		
	33.70	47.00		1	13.30			0.90		11.97	0.9pcs		
	RHS												
	0.00	4.00		1	4.00			0.90		3.60	0.9pcs		
	8.70	27.50		1	18.80			0.90		16.92	0.9pcs		
	33.70	45.00		1	11.30			0.90		10.17	0.9pcs		
	6th A Cross Road												
	LHS												
	0.00	15.00		1	15.00			0.90		13.50	0.9pcs		
	15.00	31.00		1	16.00			0.90		14.40	0.9pcs		
	RHS												
	0.00	15.00		1	15.00			0.90		13.50	0.9pcs		
	15.00	31.00		1	16.00			0.90		14.40	0.9pcs		
	6th B Cross Road												
	LHS												
	15.70	30.00		1	14.30			0.90		12.87	0.9pcs		
	30.00	45.00		1	15.00			0.90		13.50	0.9pcs		
	45.00	65.40		1	20.40			0.90		18.36	0.9pcs		
	RHS												
	0.00	10.50		1	10.50			0.90		9.45	0.9pcs		
	18.00	30.00		1	12.00			0.90		10.80	0.9pcs		
	30.00	45.00		1	15.00			0.90		13.50	0.9pcs		
	45.00	64.00		1	19.00			0.90		17.10	0.9pcs		
	3rd Cross Prakruthi Nagara(Sri Bhramhalingeshwara Juice and Condiments)												
	LHS												
	0.00	18.00		1	18.00			0.90		16.20	0.9 PCS		
	1st Cross Prakruthi Nagara												
	LHS												
	0.00	11.00		1	11.00			0.90		9.90	0.9 PCS		
	31.70	45.00		1	13.30			0.90		11.97	0.9 PCS		
	45.00	60.00		1	15.00			0.90		13.50	0.9 PCS		

369.63

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. * BANGALORE *

Assistant Engineer

Assistant Executive Engineer

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Name of Work : - Improvements to roads and drains at Kogilu and surrounding area in Ward No 05 Byatarayanapura sub division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
	60.00	73.30		1	13.30			0.90		11.97	0.9 PCS		
	RHS												
	0.00	15.00		1	15.00			0.90		13.50	0.9 PCS		
	15.00	30.00		1	15.00			0.90		13.50	0.9 PCS		
	30.00	40.00		1	10.00			0.90		9.00	0.9 PCS		
	40.00	60.00		1	20.00			0.90		18.00	0.9 PCS		
	60.00	73.30		1	13.30			0.90		11.97	0.9 PCS		
	Prakruthi Nagara Main Road												
	LHS												
	0.00	15.00		1	15.00			0.90		13.50	0.9 PCS		
	18.80	30.00		1	11.20			0.90		10.08	0.9 PCS		
	30.00	50.50		1	20.50			0.90		18.45	0.9 PCS		
	57.40	60.00		1	2.60			0.90		2.34	0.9 PCS		
	60.00	75.00		1	15.00			0.90		13.50	0.9 PCS		
	75.00	90.00		1	15.00			0.90		13.50	0.9 PCS		
	90.00	108.60		1	18.60			0.90		16.74	0.9 PCS		
	115.00	130.00		1	15.00			0.90		13.50	0.9 PCS		
	130.00	145.00		1	15.00			0.90		13.50	0.9 PCS		
	145.00	154.00		1	9.00			0.90		8.10	0.9 PCS		
	161.00	180.00		1	19.00			0.90		17.10	0.9 PCS		
	180.00	195.00		1	15.00			0.90		13.50	0.9 PCS		
	195.00	210.00		1	15.00			0.90		13.50	0.9 PCS		
	216.50	245.50		1	29.00			0.90		26.10	0.9 PCS		
	252.50	291.30		1	38.80			0.90		34.92	0.9 PCS		
	311.80	325.00		1	13.20			0.90		11.88	0.9 PCS		
	331.70	358.40		1	26.70			0.90		24.03	0.9 PCS		
	RHS												
	0.00	15.00		1	15.00			0.90		13.50	0.9 PCS		
	15.00	18.80		1	3.80			0.90		3.42	0.9 PCS		
	18.80	30.00		1	11.20			0.90		10.08	0.9 PCS		
	30.00	50.60		1	20.60			0.90		18.54	0.9 PCS		
	58.00	60.00		1	2.00			0.90		1.80	0.9 PCS		
	60.00	75.00		1	15.00			0.90		13.50	0.9 PCS		
	75.00	90.00		1	15.00			0.90		13.50	0.9 PCS		
	90.00	107.30		1	17.30			0.90		15.57	0.9 PCS		
	121.50	130.00		1	8.50			0.90		7.65	0.9 PCS		
	130.00	154.20		1	24.20			0.90		21.78	0.9 PCS		
	162.00	180.00		1	18.00			0.90		16.20	0.9 PCS		
	180.00	199.80		1	19.80			0.90		17.82	0.9 PCS		
	207.00	215.00		1	8.00			0.90		7.20	0.9 PCS		
	215.00	230.00		1	15.00			0.90		13.50	0.9 PCS		
	230.00	246.20		1	16.20			0.90		14.58	0.9 PCS		
	253.00	275.00		1	22.00			0.90		19.80	0.9 PCS		
	275.00	292.00		1	17.00			0.90		15.30	0.9 PCS		
	298.80	310.00		1	11.20			0.90		10.08	0.9 PCS		
	310.00	330.00		1	20.00			0.90		18.00	0.9 PCS		
	330.00	346.70		1	16.70			0.90		15.03	0.9 PCS		
	354.40	367.30		1	12.90			0.90		11.61	0.9 PCS		
	Tirumenahalli Main Road												
	RHS												
	0.00	21.30		1	21.30			0.90		19.17	0.9 PCS		
	27.70	45.00		1	17.30			0.90		15.57	0.9 PCS		
	45.00	67.90		1	22.90			0.90	675.99	20.61	0.9 PCS		
								Total Quantity		1514.79	Sqm	210.00	3,18,106.00

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Assistant Engineer

Upto 753.30

Remaing Reserved for Approved (761.49)

Assistant Executive Engineer

22/6/2021

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Detailed- Measurements

Name of Work : - Improvements to roads and drains at Kogilu and surrounding area in Ward No 05 Byatarayanapura sub division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
12	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)											
Measurements recorded on												
	Qty vide Pre measurement sheet page no . 10 - 14											
								Total Quantity	3098.75	Cum	60.00	1,85,925.00
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)											
Measurements recorded on												
	Qty vide Pre measurement sheet page no . 15 - 19											
								Total Quantity	2582.30	Cum	1,729.00	44,64,789.00
								5237087			**Total Amount**	52,37,079.00
								628450.44			**Add 12% GST**	6,28,449.48
								5865537.44			**Grand Total Amount**	58,65,528.48

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Assistant Engineer

Assistant Executive Engineer

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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BRUHAT BANGALORE MAHANAGARA PALIKE
BYTARAYANPURA DIVISION

Name of Work: Package 2 Consists of 3 Works of Rs.1100.00 Lakhs

2.Improvements to roads and drains at Agrahara and surrounding area in Ward No 05 Byatarayanapura sub division.

DETAILED-MEASUREMENT

FIRST & PART BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

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Detailed- Measurements

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Sub Division

Bill No :First and Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name of Work : - Improvements to roads and drains at Agrahara and surrounding area in Ward No 05 Byatarayanapura sub division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80											
Measurements recorded on												
	Qty vide Pre measurement sheet page no . Page 1709							**Total Quantity**	880.63	Cum	234.00	2,06,068.00
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)											
	MS Nagara 6th c/s Road											
	LHS											
	32.50	44.30		1	11.80			0.90	10.62	0.9 BS slab		
	MS Nagara 7th c/s Road (W1145)											
	LHS											
	20.20	44.40		1	24.20			0.90	21.78	0.9 BS slab		
	137.30	146.20		1	8.90			0.90	8.01	0.9 BS slab		
	234.70	239.00		1	4.30			0.90	3.87	0.9 BS slab		
	RHS											
	133.30	146.20		1	12.90			1.20	15.48	1.2 BS slab		
	182.70	189.00		1	6.30			0.90	5.67	0.9 BS slab		
	189.00	195.00		1	6.00			1.20	7.20	1.2 BS slab		
	195.00	201.00		1	6.00			0.90	5.40	0.9 BS slab		
	MS Nagara 8th c/s Road(W1139)											
	LHS											
	52.70	71.60		1	18.90			0.90	17.01	0.9 BS slab		
	RHS											
	5.40	26.40		1	21.00			0.90	18.90	0.9 BS slab		
	30.00	50.00		1	20.00			0.90	18.00	0.9 BS slab		
	53.00	66.50		1	13.50			0.90	12.15	0.9 BS slab		
	MS Nagara 9th c/s Road(W1139A)											
	LHS											
	62.00	71.00		1	9.00			0.90	8.10	0.9 BS slab		
	RHS											
	0.00	11.30		1	11.30			1.20	13.56	1.2 BS slab		
	66.00	75.00		1	9.00			0.90	8.10	0.9 BS slab		
	93.00	102.20		1	9.20			0.90	8.28	0.9 BS slab		
	2nd Main Rd MS Nagara											
	LHS											
	25.50	39.00		1	13.50			1.20	16.20	1.2 BS slab		
	39.00	46.00		1	7.00			1.50	10.50	7th c/s Culvert		
	46.00	56.00		1	10.00			0.90	9.00	0.9 BS slab		
	100.00	105.50		1	5.50			0.90	4.95	0.9 BS slab		

222.75

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT LTD * BANGALORE *

Assistant Engineer

Assistant Executive Engineer

16/7/2024

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Detailed- Measurements

Name of Work : - Improvements to roads and drains at Agrahara and surrounding area in Ward No 05 Byatarayanapura sub division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
	RHS												
	119.40	133.00		1	13.60			0.90		12.24	0.9 BS slab		
	133.00	139.20		1	6.20			1.20		7.44	1.2 BS slab		
	Connecting Rd to MS Nagara2nd Main Road												
	LHS												
	2.00	19.20		1	17.20			0.90		15.48	0.9 BS slab		
	RHS												
	13.00	19.20		1	6.20			0.90		5.58	0.9 BS slab		
	22.20	31.50		1	9.30			0.90		8.37	0.9 BS slab		
	3rd Main Rd MS Nagara												
	LHS												
	103.00	111.30		1	8.30			0.90		7.47	0.9 BS slab		
	119.00	128.50		1	9.50			1.20		11.40	1.2 BS slab		
	133.00	138.00		1	5.00			0.90		4.50	0.9 BS slab		
	RHS												
	15.70	29.00		1	13.30			0.90		11.97	0.9 BS slab		
	Connecting Rd-1 to MS Nagara 3rd Main End Road												
	LHS												
	70.00	79.10		1	9.10			0.90		8.19	0.9 BS slab		
	152.00	161.00		1	9.00			0.90		8.10	0.9 BS slab		
	RHS												
	85.80	90.20		1	4.40			0.90		3.96	0.9 BS slab		
	90.20	94.50		1	4.30			1.20		5.16	1.2 BS slab		
	94.50	98.70		1	4.20			0.90		3.78	0.9 BS slab		
	98.70	103.40		1	4.70			1.20		5.64	1.2 BS slab		
	103.40	108.40		1	5.00			0.90		4.50	0.9 BS slab		
	108.40	112.40		1	4.00			1.20		4.80	1.2 BS slab		
	176.40	185.50		1	9.10			0.90		8.19	0.9 BS slab		
	Connecting Rd-2 to MS Nagara 3rd Main Road												
	LHS												
	67.10	71.90		1	4.80			0.90		4.32	0.9 BS slab		
	91.00	94.40		1	3.40			0.90		3.06	0.9 BS slab		
	176.30	190.00		1	13.70			0.90		12.33	0.9 BS slab		
	190.00	201.60		1	11.60			0.90		10.44	0.9 BS slab		
	RHS												
	121.60	130.00		1	8.40			0.90		7.56	0.9 BS slab		
	130.00	149.00		1	19.00			0.90		17.10	0.9 BS slab		
	176.30	185.50		1	9.20			1.20		11.04	1.2 BS slab		
												202.68	
								Total Quantity		**425.40**	**Sqm**	112.00	**47,645.00**

Tejus Consultants

Assistant Engineer

Assistant Executive Engineer
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Detailed- Measurements

Name of Work : - Improvements to roads and drains at Agrahara and surrounding area in Ward No 05 Byatarayanapura sub division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
3	Removing and resetting of footpath slab (P.No.270, I.No.37.56 of PW, P&IWTD SR 2018-19)												
	MS Nagara 8th c/s Road(W1139)												
	LHS												
	16.50	25.80		1	9.30			0.90		8.37	0.9 PCS		
	Connecting Rd-1 to MS Nagara 3rd Main End Road												
	LHS												
	161.00	170.60		1	9.60			0.90		8.64	0.9 PCS slab		
	Connecting Rd-2 to MS Nagara 3rd Main Road												
	RHS												
	107.10	111.40		1	4.30			1.20		5.16	1.2 PCS		
	1st Block 5th street Tirumenahalli Road												
	LHS												
	0.00	15.00		1	15.00			0.90		13.50	0.9 PCS		
	15.00	31.00		1	16.00			0.90		14.40	0.9 PCS		
	3rd Block 5th c/s												
	RHS												
	0.00	15.00		1	15.00			0.90		13.50	0.9 PCS		
	15.00	30.00		1	15.00			0.90		13.50	0.9 PCS		
	30.00	45.00		1	15.00			0.90		13.50	0.9 PCS		
	45.00	49.00		1	4.00			0.90		3.60	0.9 PCS		
								Total Quantity		**94.17**	**Sqm**	**210.00**	**19,776.00**

Returned for Approval

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT LTD * BANGALORE *

Assistant Engineer

Assistant Executive Engineer

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Name of Work : - Improvements to roads and drains at Agrahara and surrounding area in Ward No 05 Byatarayanapura sub division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
12	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)											
Measurements recorded on												
	Qty vide Pre measurement sheet page no . Page 10 - 14											
								Total Quantity	3247.93	**Cum**	60.00	1,94,876.00
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)											
Measurements recorded on												
	Qty vide Pre measurement sheet page no . Page 16 - 20											
								Total Quantity	2314.37	**Cum**	1,729.00	40,01,548.00
20	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub-base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. . MORTH V Revision Specification No. 601, IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver .((P.No.174, I.No.22.1.2 of PW,P&IWTD SR 2018-19)											
Measurements recorded on												
	Qty vide Pre measurement sheet page no . Page - 21 - 22											8,77,818.00
								Total Quantity	235.34	**Cum**	3,730.00	8,77,830.00
								5347731			**Total Amount**	53,47,743.00
								641727.72			**Add 12% GST**	641729.16
								5989458.72			**Grand Total Amount**	5989472.16

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Assistant Engineer

Assistant Executive Engineer
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BRUHAT BANGALORE MAHANAGARA PALIKE

BYTARAYANPURA DIVISION

Name of Work: Package 2 Consists of 3 Works of Rs.1100.00 Lakhs

3.Improvements to roads and drains at Hegdenagar and surrounding area in Ward No 06 Byatarayanapura sub division.

DETAILED-MEASUREMENT

FIRST & PART BILL

TEJUS CONSULTANTS

CONSULTING ENGINEERS AND DESIGNERS

No.58 MIG, 6th Cross, 3rd Main

1st Stage, Basaveshwaranagar

Bangalore-560079

☎ 080 - 23287532

email: tejusconsultants@gmail.com

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BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA SUB DIVISION

Bill No :First and Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name of Work : - Improvements to roads and drains at Hegdenagar and surrounding area in Ward No 06 Byatarayanapura sub division.

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80												
Measurements recorded on													
	Qty vide Pre measurement sheet page no . 140 14												
									Total Quantity	**1502.09**	**cum**	**234.00**	**3,51,489.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)												
	Cover slab R&R												
	BDS Layout 1st A cross												
	RHS												
	290.00	305.00	R/S	1	15.00			0.90		13.50	BS Slab		
	318.80	333.80	R/S	1	15.00			0.90		13.50	BS Slab		
	333.80	344.80	R/S	1	11.00			0.90		9.90	BS Slab		
	BDS Layout 1st cross Rd												
	LHS												
	0.00	12.00	L/S	1	12.00			0.90		10.80	BS Slab		
	60.70	84.30	L/S	1	23.60			0.90		21.24	BS Slab		
	RHS												
	30.60	49.60	R/S	1	19.00			0.90		17.10	BS Slab		
	95.50	110.00	R/S	1	14.50			0.90		13.05	BS Slab		
	110.00	129.00	R/S	1	19.00			0.90		17.10	BS Slab		
	BDS Layout 2nd cross Rd												
	LHS												
	16.00	30.00	L/S	1	14.00			1.20		16.80	BS Slab		
	40.00	52.00	L/S	1	12.00			1.20		14.40	BS Slab		
	88.00	95.00	L/S	1	7.00			0.90		6.30	BS Slab		
	RHS												
	0.00	26.00	R/S	1	26.00			1.20		31.20	BS Slab		
	59.80	75.50	R/S	1	15.70			0.90		14.13	BS Slab		
	100.00	115.00	R/S	1	15.00			0.90		13.50	BS Slab		
	115.00	121.60	R/S	1	6.60			0.90		5.94	BS Slab		
	BDS Layout 3rd cross Rd												
	LHS												
	96.50	106.40	L/S	1	9.90			0.90		8.91	BS Slab		
	RHS												
	116.70	131.10	R/S	1	14.40			0.90		12.96	BS Slab		
	131.10	149.20	R/S	1	18.10			0.90		16.29	BS Slab		
	149.20	158.60	R/S	1	9.40			0.90		8.46	BS Slab		
	158.60	175.50	R/S	1	16.90			0.90		15.21	BS Slab		
	245.00	262.90	R/S	1	17.90			0.90		16.11	BS Slab		
	309.20	314.00	R/S	1	4.80			0.90		4.32	BS Slab		
	354.50	364.50	R/S	1	10.00			0.90		9.00	BS Slab		

309.72

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT LTD BANGALORE

14.07.21

Assistant Engineer

Assistant Executive Engineer

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Name of Work : - Improvements to roads and drains at Hegdenagar and surrounding area in Ward No 06 Byatarayanapura sub division.

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
	BDS Layout 4th cross Rd												
	LHS												
	26.40	47.60	L/S	1	21.20			1.20		25.44	BS Slab		
	103.50	106.50	L/S	1	3.00			0.90		2.70	BS Slab		
	106.50	108.50	L/S	1	2.00			1.20		2.40	BS Slab		
	108.50	112.60	L/S	1	4.10			1.20		4.92	BS Slab		
	155.00	160.00	L/S	1	5.00			1.20		6.00	BS Slab		
	RHS												
	125.80	142.40	R/S	1	16.60			0.90		14.94	BS Slab		
	150.80	161.80	R/S	1	11.00			0.90		9.90	BS Slab		
	161.80	169.10	R/S	1	7.30			1.20		8.76	BS Slab		
	268.20	280.00	R/S	1	11.80			1.20		14.16	BS Slab		
	c/s b/w BDS Layout 4th and 3rd cross Rd												
	RHS												
	0.00	15.00	R/S	1	15.00			0.90		13.50	BS Slab		
	c/s b/w BDS Layout 3rd and 1st A cross Rd												
	RHS												
	38.00	47.70	R/S	1	9.70			1.20		11.64	BS Slab		
	61.00	74.00	R/S	1	13.00			1.20		15.60	BS Slab		
	Shiradi Sai Rathan Layout 2nd c/s road												
	1st c/s road												
	LHS												
	0.00	20.30	L/S	1	20.30			1.20		24.36	BS Slab		
	3rd c/s road												
	LHS												
	10.00	19.50	L/S	1	9.50			0.90		8.55	BS Slab		
	Shiradi Sai Rathan Layout 3rd A c/s road												
	LHS												
	15.00	18.00	L/S	1	3.00			0.90		2.70	BS Slab		
	29.00	33.00	L/S	1	4.00			0.90		3.60	BS Slab		
	56.50	65.20	L/S	1	8.70			0.90		7.83	BS Slab		
	Shiradi Sai Rathan Layout 2nd A c/s road												
	LHS												
	19.00	22.00	L/S	1	3.00			0.90		2.70	BS Slab		
	28.30	32.00	L/S	1	3.70			1.20		4.44	BS Slab		
	86.00	95.00	L/S	1	9.00			0.90		8.10	BS Slab		
	95.00	110.00	L/S	1	15.00			0.90		13.50	BS Slab		
	RHS												
	22.80	28.30	R/S	1	5.50			0.90		4.95	BS Slab		
	28.30	32.00	R/S	1	3.70			0.90		3.33	BS Slab		
	38.40	41.40	R/S	1	3.00			1.20		3.60	BS Slab		
	120.20	129.50	R/S	1	9.30			1.20		11.16	BS Slab		
	160.00	175.00	R/S	1	15.00			1.20		18.00	BS Slab		
	175.00	190.00	R/S	1	15.00			1.20		18.00	BS Slab		
	190.00	203.10	R/S	1	13.10			1.20		15.72	BS Slab		
	Shiradi Sai Rathan Layout 1st A c/s road												
	LHS												
	68.50	83.00	L/S	1	14.50			0.90		13.05	Desilt+RR		
	83.00	92.00	L/S	1	9.00			0.90		8.10	Desilt+RR		
	141.50	166.00	L/S	1	24.50			1.20		29.40	Desilt+RR		

331.05

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT LTD * BANGALORE *

Assistant Engineer 16.07.24

Assistant Executive Engineer

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Name of Work : - Improvements to roads and drains at Hegdenagar and surrounding area in Ward No 06 Byatarayanapura sub division.

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
	RHS												
	5.00	10.00	R/S	1	5.00			0.90		4.50	Desilt+RR		
	19.50	35.50	R/S	1	16.00			0.90		14.40	Desilt+RR		
	47.00	51.00	R/S	1	4.00			0.90		3.60	Desilt+RR		
	120.00	135.00	R/S	1	15.00			0.90		13.50	Desilt+RR		
	135.00	150.00	R/S	1	15.00			0.90		13.50	Desilt+RR		
	150.00	158.50	R/S	1	8.50			0.90		7.65	Desilt+RR		
	B. Ramaiah Rd(Hegdenagar Main Rd)												
	LHS												
	49.50	71.00	L/S	1	21.50			0.90		19.35	BS slab		
	131.00	158.00	L/S	1	27.00			1.20		32.40	BS slab		
	171.50	189.50	L/S	1	18.00			1.50		27.00	BS slab		
	189.50	202.50	L/S	1	13.00			0.90		11.70	BS slab		
	202.50	209.00	L/S	1	6.50			1.20		7.80	BS slab		
	209.00	238.50	L/S	1	29.50			0.90		26.55	BS slab		
	255.50	277.00	L/S	1	21.50			0.90		19.35	BS slab		
	286.50	300.00	L/S	1	13.50			0.90		12.15	BS slab		
	300.00	314.00	L/S	1	14.00			0.90		12.60	BS slab		
	322.00	331.50	L/S	1	9.50			0.90		8.55	BS slab		
	451.00	458.00	L/S	1	7.00			1.50		10.50	BS slab		
	RHS												
	0.00	7.50	R/S	1	7.50			1.80		13.50	BS Slab		
	14.00	30.00	R/S	1	16.00			0.90		14.40	BS Slab		
	30.00	45.00	R/S	1	15.00			0.90		13.50	BS Slab		
	70.00	85.50	R/S	1	15.50			1.20		18.60	BS Slab		
	156.00	163.70	R/S	1	7.70			0.90		6.93	BS Slab		
	213.00	243.00	R/S	1	30.00			0.90		27.00	BS Slab		
	292.50	302.00	R/S	1	9.50			0.90		8.55	BS Slab		
	302.00	323.00	R/S	0	21.00			0.90		0.00	No work		
	362.00	371.00	R/S	0	9.00			0.90		0.00	New Culvert (c/s Rd)		
	371.00	380.00	R/S	1	9.00			0.90		8.10	BS Slab		
	380.00	395.00	R/S	1	15.00			0.90		13.50	BS Slab		
	395.00	401.50	R/S	1	6.50			0.90		5.85	BS Slab		
	408.00	427.20	R/S	1	19.20			0.90		17.28	BS Slab		
	Apoorva Enclave												
	LHS												
	83.10	92.00	L/S	1	8.90			1.20		10.68	1.2 BS slab		
	RHS												
	413.00	420.60	R/S	1	7.60			1.20		9.12	1.2 BS slab		
								Total Quantity		1052.88	Sqm	112.00	1,17,923.00
3	Removing and resetting of footpath slab (P.No.270, I.No.37.56 of PW, P&IWTD SR 2018-19)												
	B. Ramaiah Rd(Hegdenagar Main Rd)												
	LHS												
	247.50	255.50	L/S	1	8.00			1.20		9.60	PCS slab		
	277.00	286.50	L/S	1	9.50			1.20		11.40	PCS slab		
	331.50	353.50	L/S	1	22.00			1.20		26.40	PCS slab		
	373.50	386.00	L/S	1	12.50			1.20		15.00	PCS slab		
	393.00	419.00	L/S	1	26.00			1.20		31.20	PCS slab		
	425.50	451.00	L/S	1	25.50			1.20		30.60	PCS slab		
	470.00	504.50	L/S	1	34.50			1.20		41.40	PCS slab		
	511.00	544.00	L/S	1	33.00			1.20		39.60	PCS slab		

205.20

Tejus Consultants

BENAKA DEVELOPERS AND PROJECTS PVT LTD * BANGALORE *

Assistant Engineer

Assistant Executive Engineer

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Detailed Measurements

Name of Work : - Improvements to roads and drains at Hegdenagar and surrounding area in Ward No 06 Byatarayanapura sub division.

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit/ Remarks	Rate	Amount
	550.00	583.50	L/S	1	33.50			1.20		40.20	PCS slab		
	RHS												
	252.40	267.60	R/S	1	15.20			1.20		18.24	PCS slab		
	332.40	342.00	R/S	1	9.60			1.20		11.52	PCS slab		
	348.00	362.00	R/S	1	14.00			1.20		16.80	PCS slab		
	435.00	466.50	R/S	1	31.50			1.20		37.80	PCS slab		
	474.00	490.00	R/S	1	16.00			1.20		19.20	PCS slab		
	490.00	506.00	R/S	1	16.00			1.20		19.20	PCS slab		
	513.50	530.00	R/S	1	16.50			1.20		19.80	PCS slab		
	530.00	543.60	R/S	1	13.60			1.20		16.32	PCS slab		
	552.80	570.00	R/S	1	17.20			1.50		25.80	PCS slab		
	570.00	583.50	R/S	1	13.50			1.50		20.25	PCS slab		
								Total Quantity		450.33	Sqm	210.00	94,569.00
12	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specification MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)												
Measurements recorded on													
	Qty vide Pre measurement sheet page no . 15 - 22							Total Quantity		4486.43	Cum	60.00	2,69,186.00
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)												
Measurements recorded on													
	Qty vide Pre measurement sheet page no . 23 - 29							Total Quantity		3738.69	Cum	1729.00	64,64,194.00
												Total Amount	72,97,361.00
												Add 12% GST	8,75,683.32
												Grand Amount	81,73,044.32

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BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Assistant Engineer

Assistant Executive Engineer

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